

DERWENT- 1999-317034
ACC-NO:
DERWENT- 199927
WEEK:

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TITLE: Backlight illumination controller for LCD device - detects maximum brightness level of input video signal in proportion to which illumination of backlight is controlled

Title - TIX (1):

Backlight illumination controller for LCD device - detects maximum brightness level of input video signal in proportion to which illumination of backlight is controlled

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-109317

(43)Date of publication of application : 23.04.1999

(51)Int.Cl.

G02F 1/133
G02F 1/1335

(21)Application number : 09-266692

(71)Applicant : SONY CORP

(22)Date of filing : 30.09.1997

(72)Inventor : WATANABE KENJI

(54) LIQUID CRYSTAL DISPLAY DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To easily maximize contrast and to reduce heat generation and power consumption by controlling light quantity in proportion to the maximum luminance level of an input video signal.

SOLUTION: A luminance level detecting circuit 7, upon detecting the maximum level of luminance is for example 100 IRE from a Y signal in a signal processing circuit 3,

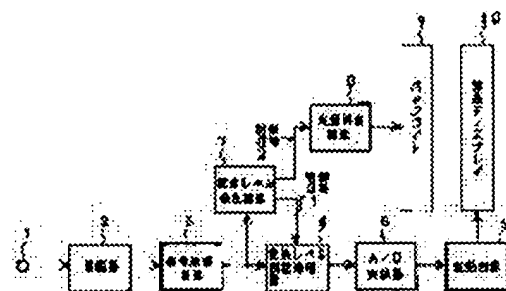
transmits to a conversion level adjusting amplifier 4 a control signal 1 that sets the gain at one, and also

transmits to a light quantity control circuit 8 a control signal 2 that sets the light quantity of the back light 9 at 100%. Then, in the case where a signal is inputted

corresponding to the maximum level luminance 30% (30 IRE) from an inputting part 1, this signal is amplified by

an amplifier 2 and processed by the signal processing circuit 3, while the luminance level detecting circuit 7, upon detecting the maximum level of the luminance is 30 IREV from the

processed Y signal, transmits to the conversion level adjusting amplifier 4 the control signal 1 that increases the gain $100/30=3.3$ times, and also transmits to the light quantity control circuit 8 the control signal 2 that sets the light quantity of the back light 9 at 30%.



LEGAL STATUS

[Date of request for examination]

23.07.2004

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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